

**PENGEMBANGAN BUKU PETUNJUK PRAKTIKUM KIMIA SMK
KOMPETENSI KEAHLIAN TEKNOLOGI PENGOLAHAN HASIL
PERTANIAN KELAS XI SEMESTER II
BERBASIS KONTEKSTUAL**

Oleh:
N. Alfiana
12303241001

Pembimbing:
Eddy Sulistyowati, Apt.,M.S.

ABSTRAK

Penelitian ini merupakan penelitian pengembangan media pembelajaran di bidang pendidikan kimia. Tujuan penelitian pengembangan ini adalah menghasilkan buku petunjuk praktikum kimia SMK kompetensi keahlian Teknologi Pengolahan Hasil Pertanian kelas XI semester II berbasis kontekstual dan mengetahui kualitas buku petunjuk praktikum kimia SMK kompetensi keahlian Teknologi Pengolahan Hasil Pertanian kelas XI semester II berbasis kontekstual.

Model pengembangan yang digunakan adalah model prosedural. Prosedur pengembangan buku petunjuk praktikum kimia berbasis kontekstual mengadaptasi model pengembangan 4-D (*define, design, develop, dan disseminate*) yang dimodifikasi menjadi 3-D. Prosedur pengembangan yang dilakukan diawali dengan tahap *define, design*, dan diakhiri dengan tahap *develop*. Produk hasil pengembangan kemudian ditinjau oleh 3 *peer reviewer*, ahli media sekaligus ahli materi. Produk yang telah melalui tahap revisi kemudian dinilai dan diberi masukan oleh *reviewer*, yaitu 5 guru kimia SMK di wilayah Daerah Istimewa Yogyakarta. Penilaian yang dilakukan meliputi 6 aspek penilaian yaitu: aspek kelayakan isi, kelayakan penyajian, kelayakan bahasa, kelayakan kegrafikan, muatan kontekstual dan keterlaksanaan dengan 32 indikator penilaian. Hasil penilaian yang berupa skor dari pengubahan skala likert kemudian ditabulasikan dan dianalisis dengan pedoman penilaian ideal untuk menentukan kualitas buku petunjuk praktikum.

Hasil penelitian ini berupa buku petunjuk praktikum kimia untuk SMK berbasis kontekstual dan kualitasnya. Hasil penilaian dari 5 *reviewer* untuk keenam aspek memiliki skor rata-rata berturut-turut adalah 25,6; 25,4; 16,2; 31,4; 20,6; 17. Buku petunjuk praktikum yang telah dikembangkan mempunyai kualitas sangat baik dengan persentase keidealan 85,125%.

Kata kunci: *Pengembangan, Buku Petunjuk Praktikum, Kontekstual, Teknologi Pengolahan Hasil Pertanian.*

**DEVELOPING A CONTEXTUAL-BASED HANDBOOK OF
VOCATIONAL SCHOOL CHEMISTRY PRACTICAL
WORK FOR AGRO-PRODUCTS PROCESSING
TECHNOLOGY DEPARTMENT
IN THE ELEVENTH GRADE,
SECOND SEMESTER**

by
N. Alfiana
12303241001

Sponsor:
Eddy Sulistyowati, Apt.,M.S.

ABSTRACT

The current research is a developmental study of learning media in chemistry education. The research purposes were to develop a contextual-based handbook of vocational school chemistry practical work for the Agro-products Processing Technology department in the eleventh grade, second, and to examine the quality of the contextual-based handbook of vocational school chemistry practical work for the Agro-products Processing Technology in the eleventh grade, second semester.

The adapted development model in the research was procedural model. The procedure of developing a contextual-based the chemistry practical work handbook adapted the 4-D development model (define, design, develop, and disseminate) which was modified into 3-D. The applied development procedure was initiated with define phase, followed by design phase, and was finished with develop phase. The product resulted from the development was then evaluated by three (3) peer reviewers, media experts, and material experts. The revised product was assessed and given feedback by the reviewers who included five (5) chemistry teachers in several vocational schools in the Special Region of Yogyakarta. The assessment encompassed six (6) aspects which are content feasibility, face validity, language appropriacy, graphic suitability, contextual content, and implementation with thirty two (32) indicators. The assessment result which was in the form of scores derived from converting the likert scales was tabulated and analyzed using the ideal assessment guidelines to judge the quality of the practical work handbook.

The results of the research are in the form of contextual-based the chemistry practical work handbook for vocation school and its quality. The average assessment scores from the five reviewers for the six aspects are 25.6; 25.4; 16.2; 31.4; 20.6; 17, respectively. The practical work handbook which has been developed has a very good quality with 85.125% ideality.

Keywords: *Development, Practical Work Handbook, Contextual, Agro-products Processing Technology.*